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# NOTICE OF ALLOWANCE AND FEE(S) DUE

24739

7590

03/04/2003

CENTRAL COAST PATENT AGENCY PO BOX 187 AROMAS, CA 95004 EXAMINER

PEYTON, TAMMARA R

CLASS-SUBCLASS

2182

**ART UNIT** 

710-001000

DATE MAILED: 03/04/2003

APPLICATION NO. FILING DATE FIRST NAMED INVENTOR, ATTORNEY DOCKET NO. CONFIRMATION NO. 09/602,279 06/23/2000 Mario Nemirovsky P3814 9147

TITLE OF INVENTION: METHODS AND APPARATUS FOR BACKGROUND MEMORY MANAGEMENT

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APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$650	\$0	\$650	06/04/2003

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

#### **HOW TO REPLY TO THIS NOTICE:**

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

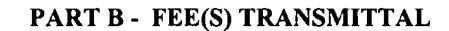
A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- ☐ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.



Complete and send this form, together with applicable fee(s), to: Mail Box ISSUE FEE

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as

indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications. CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1) Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other 24739 7590 03/04/2003 accompanying papers. Each additional paper, such as an assignment or CENTRAL COAST PATENT AGENCY formal drawing, must have its own certificate of mailing or transmission. PO BOX 187 Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Box Issue Fee address above, or being facsimile transmitted to the USPTO, on the date indicated below. AROMAS, CA 95004 (Depositor's name) (Signature) (Date) APPLICATION NO. **FILING DATE** FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 09/602,279 06/23/2000 P3814 9147 Mario Nemirovsky TITLE OF INVENTION: METHODS AND APPARATUS FOR BACKGROUND MEMORY MANAGEMENT APPLN, TYPE **SMALL ENTITY ISSUE FEE PUBLICATION FEE** TOTAL FEE(S) DUE DATE DUE YES nonprovisional **\$**650 \$0 \$650 06/04/2003 **EXAMINER CLASS-SUBCLASS ART UNIT** PEYTON, TAMMARA R 2182 710-001000 1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). 2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. single firm (having as a member a registered attorney or agent) and the names of up to 2 ☐ "Fee Address" indication (or "Fee Address" Indication form registered patent attorneys or agents. If no name PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer is listed, no name will be printed. Number is required. 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type) PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. Inclusion of assignee data is only appropriate when an assignment has been previously submitted to the USPTO or is being submitted under separate cover. Completion of this form is NOT a substitute for filing an assignment. (B) RESIDENCE: (CITY and STATE OR COUNTRY) (A) NAME OF ASSIGNEE Please check the appropriate assignee category or categories (will not be printed on the patent) individual corporation or other private group entity government 4a. The following fee(s) are enclosed: 4b. Payment of Fee(s): ☐ A check in the amount of the fee(s) is enclosed. ☐ Issue Fee Payment by credit card. Form PTO-2038 is attached. ☐ Publication Fee The Commissioner is hereby authorized by charge the required fee(s), or credit any overpayment, to ☐ Advance Order - # of Copies \_\_ Deposit Account Number \_\_\_\_\_\_(enclose an extra copy of this form). Commissioner for Patents is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above. (Authorized Signature) (Date) NOTE; The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office. This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, D.C. 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.

TRANSMIT THIS FORM WITH FEE(S)

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APPLICATION NO.	FIL	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/602,279	0	6/23/2000	Mario Nemirovsky	P3814	9147
24739	7590	03/04/2003		EXAMINI	ER
CENTRAL COAST PATENT AGENCY			PEYTON, TAMMARA R		
PO BOX 187 AROMAS, CA 95004	95004	)4		ART UNIT	PAPER NUMBER
				2182	
				DATE MAILED: 03/04/2003	

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b) (application filed on or after May 29, 2000)

The patent term adjustment to date is 453 days. If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the term adjustment will be 453 days.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (http://pair.uspto.gov)

Any questions regarding the patent term extension or adjustment determination should be directed to the Office of Patent Legal Administration at (703)305-1383.



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09/602,279	(	06/23/2000	Mario Nemirovsky	P3814	9147
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CENTRAL COAST PATENT AGENCY PO BOX 187		PEYTON, TAMMARA R			
AROMAS, CA	95004			ART UNIT	PAPER NUMBER
UNITED STATES	ES			2182	
		•		DATE MAILED: 03/04/2003	

# Notice of Fee Increase on January 1, 2003

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after January 1, 2003, then the amount due will be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there will be an increase in fees effective on January 1, 2003. See Revision of Patent and Trademark Fees for Fiscal Year 2003; Final Rule, 67 Fed. Reg. 70847, 70849 (November 27, 2002).

The current fee schedule is accessible from: <a href="http://www.uspto.gov/main/howtofees.htm">http://www.uspto.gov/main/howtofees.htm</a>.

If the issue fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due," but not the correct amount in view of the fee increase, a "Notice to Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice to Pay Balance of Issue Fee," if the response to the Notice of Allowance and Fee(s) due form is to be filed on or after January 1, 2003 (or mailed with a certificate of mailing on or after January 1, 2003), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

	Application No.	Applicant(s)	
	09/602,279	NEMIROVSKY ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Tammara R Peyton	2182	
The MAILING DATE of this communication II claims being allowable, PROSECUTION ON THE MERI erewith (or previously mailed), a Notice of Allowance (PTO OTICE OF ALLOWABILITY IS NOT A GRANT OF PATE the Office or upon petition by the applicant. See 37 CFR.  This communication is responsive to 2/18/03.  The allowed claim(s) is/are 1-24.  The drawings filed on 23 June 2000 are accepted by	TS IS (OR REMAINS) CLOSED in DL-85) or other appropriate commune in RIGHTS. This application is sure 1.313 and MPEP 1308.	this application. If not included nication will be mailed in due course. <b>THIS</b>	
Acknowledgment is made of a claim for foreign prior		<b>(f)</b> .	
a) All b) Some* c) None of the:  1. Certified copies of the priority document	s have been received		
•		a Nia	
2. Certified copies of the priority document			
3. Copies of the certified copies of the prio	-	in this national stage application from the	
International Bureau (PCT Rule 17.2)	(a)).		
* Certified copies not received:  Acknowledgment is made of a claim for domestic pri  (a) The translation of the foreign language provis  Acknowledgment is made of a claim for domestic pri  pplicant has THREE MONTHS FROM THE "MAILING DA	ional application has been received ority under 35 U.S.C. §§ 120 and/or	I. r 121. reply complying with the requirements noted	
☐ A SUBSTITUTE OATH OR DECLARATION must be IFORMAL PATENT APPLICATION (PTO-152) which give			
CORRECTED DRAWINGS must be submitted.  (a) including changes required by the Notice of Dra  1) hereto or 2) to Paper No  (b) including changes required by the proposed dra  (c) including changes required by the attached Examples.	awing correction filed, whicl	h has been approved by the Examiner.	
Identifying indicia such as the application number (see 37 of each sheet. The drawings should be filed as a separate	CFR 1.84(c)) should be written on th	e drawings in the top margin (not the back)	
. DEPOSIT OF and/or INFORMATION about the ttached Examiner's comment regarding REQUIREMENT	deposit of BIOLOGICAL MATE	RIAL must be submitted. Note the	
attachment(s)			
<ul> <li>Notice of References Cited (PTO-892)</li> <li>□ Notice of Draftperson's Patent Drawing Review (PTO-900)</li> <li>□ Information Disclosure Statements (PTO-1449), Paper</li> <li>□ Examiner's Comment Regarding Requirement for Deposition of Biological Material</li> </ul>	948) 4☐ Interview No 6⊠ Examine	Informal Patent Application (PTO-152) Summary (PTO-413), Paper No r's Amendment/Comment r's Statement of Reasons for Allowance .	

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### **EXAMINER'S AMENDMENT**

- 1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.
- 2. The application has been amended as follows:
- 3. Pursuant to MPEP 606.01, the title has been changed to read:
- --BACKGROUND MEMORY MANAGER THAT DETERMINES IF DATA STRUCTURES FITS IN MEMORY WITH MEMORY STATE TRANSACTIONS MAP—
- 4. The following is an examiner's statement of reasons for allowance: the prior art of record does not teach or suggest individually or in combination the limitation of a background memory manager (BMM) for managing a memory in a data processing system, the BMM comprising: circuitry for transferring data to and from an outside device and to add from a memory; a memory state map associated with the memory; and a communication link to a processor; characterized in that the BMM manages the memory, determining if each data structure fits into the memory, deciding exactly where to place the data structure in memory, performing all data transfers between the outside device and the memory, and maintaining the memory state map according to memory transactions made, and informing the processor of new data and its location.

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5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tammara Peyton whose telephone number is (703) 306-5508. The examiner can normally be reached between 8:00 - 4:30 from Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jeffrey A. Gaffin, can be reached on (703) 308-3301. The fax phone number for the organization where this application or proceeding is assigned is (703) 305-3718.

Any inquiry of a general nature of relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 305-3900.

Mailed responses to this action should be sent to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231.

Faxes for Official/formal communications intended for entry should be sent to:

(703) 746-7238, After Final (703) 746-7239

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or, for informal or draft communications, to:

(703) 746-7240 (please label "PROPOSED" or "DRAFT").

Hand-delivered responses should be brought to:

Crystal Park II, 2121 Crystal Drive, Arlington, VA, Fourth Floor

(Receptionist).

Tammara Peyton

February 27, 2003

PRIMARY EXAMINER

3/3/03